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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/810,408	03/26/2004	Min Chuin Hoo	15625US02	8918	
23446 7590 09/03/2008 MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET SUITE 3400 CHICAGO, IL 60661			EXAMINER		
			JOSEPH, JAISON		
			ART UNIT	PAPER NUMBER	
			2611		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	t(s)			
Office Action Summary		10/810,408	HOO ET AL.				
		Examiner	Art Unit				
		JAISON JOSEPH	2611				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS OF THE MAILING THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)[\	Responsive to communication(s) filed on <u>27 M</u>	av 2008					
· ·		action is non-final.					
3)□	, 		secontion as to the morits is				
اللات	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	closed in accordance with the practice under L	x parte Quayle, 1933 C.D. 11, 40	0.G. 213.				
Dispositi	ion of Claims						
4)🛛	Claim(s) <u>1-46</u> is/are pending in the application						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
	Claim(s) <u>1-46</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement					
ا (۵	are subject to restriction and/o	r cicculon requirement.					
Applicati	ion Papers						
9)	The specification is objected to by the Examine	r.					
10)	The drawing(s) filed on is/are: a) acc	epted or b) objected to by the E	Examiner.				
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	ınder 35 U.S.C. § 119						
12)□	Acknowledgment is made of a claim for foreign	priority under 35 H S C & 119(a)	a-(d) or (f)				
•	☐ All b)☐ Some * c)☐ None of:	priority under 55 G.G.S. § 115(a)	(4) 01 (1).				
۵)	1. Certified copies of the priority documents have been received.						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
* ~	application from the International Bureau (PCT Rule 17.2(a)).						
* 5	* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	6) Other:	sterri pproducti				

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1 - 46 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1- 46 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Amended independent claim 1 recites the limitation "the stored information received via each of the plurality of signal paths" in line 5. However present specification does not disclose that "the stored information received via each of the plurality of signal paths". Present specification discloses that the stored information is generated and stored in the receiver itself. Clarification is required. For the purpose of the art rejection Examiner consider the claim without the amended limitation.

Similar scenarios exist in claim 8, line 7, claim 15, line 5, claim 31, line 5, and claim 39, line 5.

Claims 2 - 7, 9 - 14, 16 - 30, 32 - 38, and 40 - 46 are inherently rejected as being depended on above rejected claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 - 7, 15 - 21 and 22 - 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Tanaka (US Patent 7,245,678 B2).

Regarding claim 1, Tanaka teaches a method for processing signals in a communication system, the method comprising: determining a signal quality metric for each of a plurality of signal paths, wherein one or more of said plurality of signal paths is selected based on stored information for preceding frames (see figure 1, 2, 3 and abstract and column 7, lines 3 – 20 and column 7, lines 55 – 65); assigning a threshold signal quality metric for the plurality of signal paths (see figure 1, 2, 3 and abstract; and discarding a signal path from the plurality of signal paths, if the determined signal quality metric for the signal path does not satisfy the threshold signal quality metric (see figure 1, 2, 3 and abstract column 7, lines 3 – 20 and column 7, lines 55 – 65).

Regarding claim 2, which inherits the limitations of claim 1, Tanaka further teaches assigning a different threshold signal quality metric for each of the plurality of signal paths (see figure 1, 2, 3 and abstract and column 5, lines 16 - 20 and column 7, lines 55 – 65).

Regarding claim 3, which inherits the limitations of claim 1, Tanaka further teaches assigning a fixed threshold signal quality metric for each of the plurality of signal paths (see figure 4 step s 16, comparing with a fixed threshold).

Regarding claim 4, which inherits the limitations of claim 1, Tanaka further teaches dynamically changing the threshold signal quality metric for each of the plurality of signal paths (see figure 1, 2, 3 and abstract and column 7, lines 3 - 20 and column 7, lines 55 - 65)

Regarding claim 5, which inherits the limitations of claim 1, Tanaka further teaches wherein the signal quality metric comprises at least one of a power level characteristic, a packet error rate characteristic, a bit error rate characteristic, a propagation channel characteristic, and an interference level characteristic (see figure 1, 2, 3 and abstract and column 7, lines 3 – 20 and column 7, lines 55 – 65)

Regarding claim 6, which inherits the limitations of claim 1, Tanaka further teaches wherein at least one of the signal paths comprises an antenna (see figure 1, 2, 3 and abstract and column 5, lines 16 - 20 and column 7, lines 55 – 65).

Regarding claim 7, which inherits the limitations of claim 1, Tanaka further teaches wherein each of the plurality of signal paths comprises at least one of a receive

Regarding claim 15, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 1 is applicable hereto.

Regarding claim 16, which inherits the limitations of claim 15, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 2 is applicable hereto.

Regarding claim 17, which inherits the limitations of claim 15, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 3 is applicable hereto.

Regarding claim 18, which inherits the limitations of claim 15, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 4 is applicable hereto.

Regarding claim 19, which inherits the limitations of claim 15, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 5 is applicable hereto.

Regarding claim 20, which inherits the limitations of claim 15, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 6 is applicable hereto.

Regarding claim 21, which inherits the limitations of claim 15, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 7 is applicable hereto.

Regarding claim 22, which inherits the limitations of claim 1, Tanaka further teaches the method further comprising selecting a first of said plurality of signal paths based on said previously stored information for preceding frames (see figure 1, 2, 3, and 4 and abstract and column 5, lines 16 - 20 and column 7, lines 55 – 65).

Regarding claim 23, which inherits the limitations of claim 1, Tanaka further teaches the method further comprising selecting one or more of said plurality of signal paths based on a history of previously selected signal paths (see figure 1, 2, 3, and 4 and abstract and column 5, lines 16 - 20 and column 7, lines 55 – 65).

Regarding claim 24, which inherits the limitation of claim 1, Tanaka further teaches the method further comprising controlling a gain of a selected one of said plurality of signal paths based on a power coupling factor between said selected one of said plurality of signal paths and a signal path adjacent to said selected one of said plurality of signal path (see figure 1, 2, 3, and 4 and abstract and column 5, lines 16 - 20 and column 7, lines 55 – 65).

Regarding claim 25, which inherits the limitations of claim 15, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 22 is applicable hereto.

Regarding claim 26, which inherits the limitations of claim 15, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 23 is applicable hereto.

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Regarding claim 27, which inherits the limitations of claim 15, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 24 is applicable hereto.

Regarding claim 31, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 1 is applicable hereto. Tanaka further teach selecting a target signal path from said plurality of signal paths, for receiving the signals, based on said determined signal quality metric for said plurality of signal paths and said threshold signal quality metric (see figure 1, 2, 3 and abstract column 7, lines 3 - 20 and column 7, lines 55 - 65).

Regarding claim 32, which inherits the limitations of claim 31, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 1 is applicable hereto.

Regarding claim 33, which inherits the limitations of claim 31, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 2 is applicable hereto.

Regarding claim 34, which inherits the limitations of claim 31, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 3 is applicable hereto.

Regarding claim 35, which inherits the limitations of claim 31, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 4 is applicable hereto.

Regarding claim 36, which inherits the limitations of claim 31, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 5 is applicable hereto.

Regarding claim 37, which inherits the limitations of claim 31, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 6 is applicable hereto.

Regarding claim 38, which inherits the limitations of claim 31, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 7 is applicable hereto.

Regarding claim 39, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 33 is applicable hereto.

Regarding claim 40, which inherits the limitations of claim 39, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 1 is applicable hereto.

Regarding claim 41, which inherits the limitations of claim 39, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 2 is applicable hereto.

Regarding claim 42, which inherits the limitations of claim 39, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 3 is applicable hereto.

Regarding claim 43, which inherits the limitations of claim 39, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 4 is applicable hereto.

Regarding claim 44, which inherits the limitations of claim 39, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 5 is applicable hereto.

Regarding claim 45, which inherits the limitations of claim 39, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 6 is applicable hereto.

Regarding claim 46, which inherits the limitations of claim 39, the claimed system including the features that corresponds with subject matter mentioned above in the rejection of claim 7 is applicable hereto.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8 – 14 and 28 - 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka (US Patent 7,245,678 B2) in view of Koerner (US Patent 7,049,933).

Regarding claim 8-14 and 28-30, Tanaka is cited as explained in the above paragraph. Tanakadoes not expressly teach the antenna selecting functions is done by a Machine-readable medium having stored instructions stored thereon to perform the cited functions. However, Koerner teach a Machine-readable medium having stored instructions stored thereon to perform selecting at least one signal path (see column 15, lines 39-57). Therefore it would be obvious to an ordinary skilled in the art at the time the invention was made to perform Tanaka's method in a machine-readable medium. The motivation or suggestion to do so is to reduce the cost of the receiver.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAISON JOSEPH whose telephone number is (571)272-6041. The examiner can normally be reached on M-F 9:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on (571) 272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. J./ Examiner, Art Unit 2611

> /Chieh M Fan/ Supervisory Patent Examiner, Art Unit 2611